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**STANISLAUS COUNTY**  
**DEPARTMENT OF ENVIRONMENTAL RESOURCES**  
**DIVISION OF ENVIRONMENTAL HEALTH**

**IN RE:** Knights Ferry Community Services District Water System  
Water System No. 5000008

**TO:** Knights Ferry Community Services District  
C/O Christine Bonjour-Fortuny, Administrative Secretary  
PO Box 860  
Knights Ferry, CA 95361

**COMPLIANCE ORDER NO. DER- 17CO-004**  
**FOR**  
**FOR NONCOMPLIANCE WITH THE**  
**STAGE 2 DISINFECTION BYPRODUCT RULE**  
**MAXIMUM CONTAMINANT LEVEL FOR**  
**TOTAL TRIHALOMETHANES**  
**SECTION 64533(a), TITLE 22, CALIFORNIA CODE OF REGULATIONS**  
**WATER SYSTEM NO. 5000008**  
**Issued on March 21, 2017**

Section 116655 of the California Health and Safety Code authorizes the issuance of a compliance order to a public water system for violation of the California Safe Drinking Water Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with Section 116270) (hereinafter "California SDWA"), or any regulation, standard, permit or order issued or adopted thereunder.

1 The Department of Environmental Resources (hereinafter "Department"), acting by  
2 and through its Division of Environmental Health (hereinafter "Division") and the  
3 Manager for the Division (hereinafter "Manager"), hereby issues this Compliance  
4 Order (hereinafter "Order") pursuant to Sections 116330 (f) and 116655 of the  
5 California Health and Safety Code (hereinafter "CHSC") to the Knights Ferry  
6 Community Services District Water System (hereinafter, "Knights Ferry") for violation  
7 of California Code of Regulations (hereinafter "CCR"), Section 64533(a), Maximum  
8 Contaminant Levels for Disinfection Byproducts.

9  
10 **APPLICABLE AUTHORITIES**  
11

12 **Section 116330 (f), California SDWA, states in relevant part:**

13 (f) The local primacy agency shall act for the department as the primary agency  
14 responsible for the administration and enforcement of this chapter for the specified  
15 public water systems and shall be empowered with all of the authority granted to the  
16 department by this chapter over those water systems.

17 **Section 116655, California SDWA, states in relevant part:**

18 (a) Whenever the Division determines that any person has violated or is violating this  
19 chapter, or any permit, regulation, or standard issued or adopted pursuant to this  
20 chapter, the director may issue an order doing any of the following:

21 (1) Directing compliance forthwith.

22 (2) Directing compliance in accordance with a time schedule set by the Division.

23 (3) Directing that appropriate preventive action be taken in the case of a  
24 threatened violation.

25 (b) An order issued pursuant to this section may include, but shall not be limited to,  
26 any or all of the following requirements:

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- (1) That the existing plant, works, or system be repaired, altered, or added to.
- (2) That purification or treatment works be installed.
- (3) That the source of the water supply be changed.
- (4) That no additional service connection be made to the system.
- (5) That the water supply, the plant, or the system be monitored.
- (6) That a report on the condition and operation of the plant, works, system, or water supply be submitted to the Division.

**Section 64533(a), Title 22, CCR, states in relevant part:**

(a) Using the monitoring and calculation methods specified in sections 64534, 64534.2, 64535, and 64535.2, the primary MCLs for the disinfection byproducts shown in table 64533-A shall not be exceeded in drinking water supplied to the public.

**Table 64533-A**  
**Maximum Contaminant Levels and Detection Limits for Purposes of Reporting**  
**Disinfection Byproducts**

Disinfection Byproduct	Maximum Contaminant Level (mg/L)	Detection Limit for Purposes of Reporting (mg/L)
Total trihalomethanes (TTHM)	0.080	
Bromodichloromethane		0.0010
Bromoform		0.0010
Chloroform		0.0010
Dibromochloromethane		0.0010
Haloacetic acids (five) (HAA5)	0.060	
Monochloroacetic Acid		0.0020
Dichloroacetic Acid		0.0010
Trichloroacetic Acid		0.0010
Monobromoacetic Acid		0.0010
Dibromoacetic Acid		0.0010
Bromate	0.010	0.0050
Chlorite	1.0	0.020



1 Additional *Applicable Authorities* are located in Attachment A, which is attached hereto  
2 and incorporated by reference.

### 3 4 STATEMENT OF FACTS

5  
6 Knights Ferry serves treated surface water to the unincorporated area of Knights  
7 Ferry. Knights Ferry serves a population of about 168 through 67 service  
8 connections, based the 2015 Annual Report to the Division. Knights Ferry is operated  
9 under Water Supply Permit No. 2017-03-006, which was issued on March 16, 2017.  
10 Conventional treatment technology is used for removing turbidity and microbial  
11 contaminants at the Knights Ferry plant. Treatment includes rapid mix,  
12 coagulation/flocculation, sedimentation, filtration and disinfection. Disinfection is  
13 provided during pre-treatment and post-filtration for inactivation of pathogens.

14  
15 The system's sole surface water source is the Stanislaus River. Water from the  
16 Stanislaus River arrives at the plant by means of either an intake at the Stanislaus  
17 River or from the Frymier Lateral which diverts water from the Stanislaus River at the  
18 Goodwin Dam.

19  
20 Sodium hypochlorite is used as the primary disinfectant, and the coagulant of choice is  
21 a cationic polymer.

22  
23 CCR, Title 22, Chapter 15.5 (hereinafter "Stage 2 Disinfection Byproduct Rule" or  
24 "ST2DBPR") adopted by California, effective June 21, 2012, requires water systems  
25 serving less than 10,000 persons to monitor and report disinfection byproduct and  
26 residual disinfectant levels. The ST2DBPR applies to any community or non-transient

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1 non-community water system that treats water with a chemical disinfectant in any part  
2 of the treatment process or that provides water containing a chemical disinfectant.  
3 CCR Section 64533 establishes a maximum contaminant level (hereinafter "MCL") in  
4 drinking water for total trihalomethanes (hereinafter "TTHM") and haloacetic acids  
5 (five) (hereinafter "HAA5") in drinking water of 0.080 mg/L and 0.060 mg/L,  
6 respectively.

7  
8 Based on its population, Knights Ferry was on Schedule 4 for the implementation of  
9 the ST2DBPR. Knights Ferry started ST2DBPR compliance monitoring in September  
10 2005. Based on population, and as per Knights Ferry's approved S2DBPR  
11 compliance monitoring plan, Knights Ferry is required to collect one sample from the  
12 distribution system (50's Road House) per year.

13  
14 The ST2DBPR sample set collected in September 2005 showed TTHM concentrations  
15 over the MCL in water from the 50's Road House sample location as noted in **Table 1**  
16 below. All results are as reported to the Division by the laboratory that performed the  
17 analysis and converted to Maximum Contaminant Level units. Therefore, in  
18 accordance with Section 64534.2-A, Knights Ferry was required to begin quarterly  
19 TTHM monitoring from the 50's Road House sample location.  
20



**Table 1: Disinfection Byproduct Monitoring Results September 2005**

DISINFECTION BYPRODUCT	RESULT	
	ug/L	mg/L
<b>Total trihalomethanes (TTHM)</b>	100.0	<b>0.100</b>
Bromodichloromethane	4.3	0.004
Bromoform	ND*	ND*
Chloroform	98.0	0.098
Dibromochloromethane	ND*	ND*
Haloacetic acids (five) (HAA5)	18.0	0.018
Monochloroacetic Acid	ND*	ND*
Dichloroacetic Acid	2.7	0.003
Trichloroacetic Acid	15.0	0.015
Monobromoacetic Acid	ND*	ND*
Dibromoacetic Acid	ND*	ND*

\* Non Detect = level below the Detection Level for Reporting (DLR)

CCR, Section 64535.2(e)(1), specifies ongoing compliance determinations for quarterly TTHM and HAA5 monitoring; specifically, compliance with the TTHM and HAA5 MCLs are based on a locational running annual average (LRAA), computed quarterly, at each approved sample site. Per §64400.66 "Locational running annual average" or "LRAA" means the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters. If the LRAA covering any consecutive four-quarter period exceeds the TTHM MCL or the HAA5 MCL at any monitoring location, then the system is in violation of the MCL.

The LRAA of the analytical results submitted to the Division for the 1<sup>st</sup> quarter of 2016 have exceeded the TTHM MCL at the monitoring location (50's Road House). TTHM MCL compliance, as monitored pursuant to section 64534.2(d), shall be determined as follows: For systems monitoring quarterly, the LRAA computed quarterly, shall not exceed the MCLs specified in Section 64533 (a) at all of the monitoring locations. Knights Ferry is in violation of the TTHM MCL for the 1<sup>st</sup> quarter of 2016. **Table 2**

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below is a summary of TTHM monitoring results for the last four quarters at the system monitoring location.

**Table 2: Disinfection Byproduct LRAA**

Sample Location	TTHM Result (mg/L)				LRAA
	6/16/15	9/22/15	12/21/15	3/21/16	
50's Road House	0.087	0.075	0.068	0.140	<b>0.092 mg/L</b>

The ST2DBPR monitoring results listed in the above in **Table 2** clearly indicate that the compliance monitoring conducted at 50's Road House in the last four quarters yielded LRAA levels of 0.092 mg/L. Since the LRAA exceeds the 0.080 mg/L TTHM MCL, the Knights Ferry Water System is in violation of the MCL for TTHM.

Specifically, Knights Ferry exceeded the TTHM MCL as specified in Section 64533 (a), Title 22, CCR.

#### **DETERMINATIONS**

Based on the above Statement of Facts, the Division has determined that Knights Ferry has violated the LRAA MCL for TTHMs during the first quarter of 2016.

#### **DIRECTIVES**

To ensure that the water supplied by Knights Ferry is at all times safe, wholesome, healthful, and potable, and pursuant to the California SDWA, Knights Ferry is hereby directed to take the following actions:



- 1 1. Cease and desist from failing to comply with CCR, Title 22, Section 64533(a),  
2 by ensuring that the system is provided with a reliable and adequate supply of  
3 pure, wholesome, healthful, and potable water, which is in compliance with all  
4 primary drinking water standards.  
5
- 6 2. Provide quarterly public notification, which has been approved by the Division,  
7 of its inability to meet the TTHM MCL during any calendar quarter that the  
8 four-quarter locational running annual average exceeds the TTHM MCL.  
9 Notification procedures and format are provided in Attachment B. An electronic  
10 version of Attachment B is available upon request. Public notification for the  
11 current LRAA TTHM MCL violation for the 1<sup>st</sup> quarter of 2016 shall be provided  
12 by May 1, 2016.  
13
- 14 3. Proof of public notification shall be provided to the Division following each  
15 quarterly notification by the 10<sup>th</sup> day of the month following notification, using  
16 the form provided as Attachment C.  
17
- 18 4. Continue to collect quarterly samples for TTHM's and HAA5's from the  
19 distribution system in accordance with an approved ST2DBPR monitoring plan.  
20 The analytical results shall be reported to the Division electronically by the  
21 analyzing laboratory no later than the 10<sup>th</sup> day following the month in which the  
22 analysis was completed.  
23
- 24 5. Prepare a Corrective Action Plan identifying improvements to the water system  
25 designed to correct the water quality problem (violation of the TTHM MCL) and  
26 eliminate the need to deliver water to consumers that does not meet primary  
27 drinking water standards. The plan shall include a time schedule for completion  
28 of various phases of the project.



6. Submit the Corrective Action Plan required under Directive No. 5, above, to the Division by June 1, 2017.
7. Submit quarterly progress reports to the Division. The first quarterly progress report shall describe progress made in the 3rd quarter of 2017 and shall be submitted to the Division by October 10, 2017, using the form provided as Attachment D.
8. Operate the existing water system to minimize formation of total trihalomethanes and haloacetic acids in the distribution system.
9. Submit a written response by May 1, 2017, indicating Knights Ferry's willingness to comply with the directives of this Compliance Order.
10. By no later than March 1, 2020, Knights Ferry shall achieve compliance with the total trihalomethanes maximum contaminant level, with the completion of a project and demonstration that the locational running annual average is reliably less than the MCL. Knights Ferry shall provide written notification of the date that compliance is achieved, no later than ten days following receipt of the laboratory sampling results.

All submittals required by this Order shall be addressed to:

Rachel Riess, REHS  
Department of Environmental Resources  
3800 Cornucopia Way, Suite C  
Modesto, CA 95358

1 The Division reserves the right to make such modifications to this Order as it may  
2 deem necessary to protect public health and safety. Such modifications may be issued  
3 as amendments to this Order and shall be effective upon issuance. Nothing in this  
4 Compliance Order relieves Knights Ferry of its obligation to meet the requirements of  
5 the California SDWA, or any regulation, standard, permit or order issued thereunder.

6  
7 If Knights Ferry is unable to perform the tasks specified in this Order for any reason,  
8 whether within or beyond its control, and if Knights Ferry notifies the Division in writing  
9 no less than five days in advance of the due date, the Division may extend the time for  
10 performance if Knights Ferry demonstrates that it has used its best efforts to comply  
11 with the schedule and other requirements of this Order.

#### 12 13 **PARTIES BOUND**

14  
15 This Compliance Order shall apply to and be binding upon Knights Ferry, its owners,  
16 shareholders, officers, directors, agents, employees, contractors, successors, and  
17 assignees.

#### 18 19 **SEVERABILITY**

20  
21 The directives of this Compliance Order are severable, and Knights Ferry shall comply  
22 with each and every provision thereof notwithstanding the effectiveness of any  
23 provision.



1 **FURTHER ENFORCEMENT ACTION**

2  
3 The California SDWA authorizes the Division to issue citations and compliance orders  
4 with assessment of administrative penalties to a public water system for violation or  
5 continued violation of the requirements of the California SDWA or any permit,  
6 regulation, permit or order issued or adopted thereunder including, but not limited to,  
7 failure to correct a violation identified in a citation or compliance order. The California  
8 SDWA also authorizes the Division to take action to suspend or revoke a permit that  
9 has been issued to a public water system if the system has violated applicable law or  
10 regulations or has failed to comply with an order of the Division; and to petition the  
11 superior court to take various enforcement measures against a public water system  
12 that has failed to comply with an order of the Division. The Division does not waive  
13 any further enforcement action by issuance of this compliance order.

14  
15 3/21/17  
16 Date

17 Rachel Riess  
18 Rachel Riess, REHS  
19 Senior Environmental Health Specialist  
20 Division of Environmental Health  
21 Department of Environmental Resources  
22 Stanislaus County

23  
24 Certified Mail No. 7014 3490 0001 6851 3208

25 **Attachments:**

26 Attachment A: Applicable Authorities  
27 Attachment B: Public Notification Form  
28 Attachment C: Proof of Notification Form  
Attachment D: Quarterly Progress Report Form

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